Bill Nye the Science Guy

# Spiders

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# Implementation Guide

***Welcome to Disney's Bill Nye DVD collection! With the help of this Guide you can bring instructional DVDs into your science curriculum.***

## What's on the DVD?

Bill Nye DVDs expand the educational features of *Bill Nye the Science Guy* programs. Each DVD provides students with science content through video clips aligned with *National Science Education Standards (NSES)* and a host of other resources.

Short video clips aligned with the NSES provide a unique opportunity for you to enhance your lessons using DVD technology. Now you can show a video clip, or even short segments of a clip, on command. But there are a host of other features, too! See the chart below for a summary.

### From the Main menu, there are three chief sections:

| Feature | Description |
|---|---|
| Watch Program Menu | From this menu, you can play the program straight through or use the clips to customize your viewing. |
| Teacher Support | From this menu, you can access this Teacher's Guide, the Glossary, Internet Links, and the Quiz. |
| Bonus Materials | Use this menu to try a different discussion starter, download a special screen-saver, or check out never-before-seen footage. |

### From the Watch Program menu, you can:

| Feature | Description |
|---|---|
| Play Program | Play the entire program from start to finish. |
| Bilingual Mode | View the entire program or clips in English or Spanish. |
| Glossary Mode | Make links to Glossary terms appear during the program. |
| Program Overview | View the program introduction, in which Bill discusses the topic covered. |
| Try This | Show students demonstrating science concepts. |
| Way Cool Scientist | Meet a real scientist who talks about his or her area of study. |
| Bill's Demonstration | Look at a science demonstration conducted by Bill Nye. |
| Music Video | Enjoy a short music video that summarizes the topic in an age-appropriate and entertaining manner. |
| Science Standards | Take advantage of short video clips from the program, which are aligned with National Science Education Standards. |

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### From the Teacher Support menu, you can:

| Feature | Description |
|---|---|
| Science Quiz | Give students a quiz to take independently or as a class. Seven to ten quiz items are aligned with the National Science Education Standards. The items are in multiple-choice or true-false format. Each wrong answer links to a standards-aligned video clip. At the end of the quiz, a scoring function reveals the number of correct initial answers. |
| Glossary | Check out definitions of key terms and view video clips that reinforce the concepts. |
| DVD Features | View a quick overview of the features found on the DVD. |
| Teacher's Guide | Print out or view this comprehensive Teacher's Guide in PDF format. |
| Internet Link | Link to the Bill Nye area of Disney's Edustation Web site, where you can find links to Internet sites related to the content of each Bill Nye program. |

### From the Bonus Materials menu, you can:

| Feature | Description |
|---|---|
| Bonus Material | Find out what *wasn't* in the episode! In most cases, there's more of the Way Cool Scientist interview, Bill Nye outtakes, and an extra discussion starter. |
| Additional Clips | See trailers of related DVDs and videos. |
| Screen-Saver | Download this cool screen-saver for your computer. |

## The Planning Process

This Guide provides a Lesson Planning Worksheet (see page 12), which can assist you in setting up your instruction around a topic. The following sections of this Implementation Guide are offered to assist your planning process:

- **Determining Objectives and Linking to Standards**
- **The Learning Cycle**
  - **Explore**
  - **Apply**
  - **Extend**
  - **Assess**

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## Determining Objectives and Linking to Standards

1. The NSES Teaching Standard A states that science teachers must "select science content and adapt and design curricula to meet the interest, knowledge, understanding, abilities, and experience of students."

   The NSES recommends that teachers "integrate . . . a practical structure for the sequence of activities, and the content to be learned." The primary instructional model recommended by the NSES is inquiry into authentic student-generated questions about natural or designed phenomena. Since most state and local standards documents were derived from the NSES, you will find that your local and state standards match closely with content standards in the Bill Nye DVD.

   Each DVD contains a menu of clips that are aligned with the NSES. You can review the standards and their aligned clips in the Science Standards menu under Watch Program. Also, the Standards listed on page 10 of this Guide allow you to look at additional NSES content standards that are addressed on the video. Here's an example of the content standards and clips aligned with the Bill Nye DVD entitled *Blood and Circulation*:

### Life Science Standards (NSES) Addressed in *Blood and Circulation*

**Life Science:**
**Structure and function in living systems**

- **Living systems at all levels of organization demonstrate the complementary nature of structure and function.**

  **Aligned clips:**

  - **1 Blood vessels**
  - **2 Heart pump and bloodstream**
  - **3 Heart valves and blood circulation**
  - **4 White blood cells**
  - **5 Capillaries**

- **The human organism has systems for digestion, respiration, reproduction, circulation, excretion, movement, control, and coordination, and for protection.**

  **Aligned clips:**

  - **6 Heart pump**
  - **7 Heart muscle**
  - **8 Pumping blood to brain**

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2. Determine your objectives for the lesson and how these objectives address the standards.

### Sample Objectives for *Blood and Circulation*

**In this activity students will:**

- **Observe and describe a body system responsible for supply and transport.**
- **Use this information to define a body system.**
- **Ask questions about the circulatory system.**
- **Explain how structure complements function in organs of the circulatory system.**
- **Cite examples of current research related to this system.**

3. Design a learning cycle of instructional experiences and assessments for the students to engage in that will help students meet these standards. Students may be given teacher-planned investigations or may be guided to design their own investigations.

## The Learning Cycle

The learning cycle is a sequence of activities that involve students in the learning process. The sequence found here is based on research from Lawson**,** Abraham, and Renner published in 1989. That has been adapted to include: Explore, Apply, Extend and Assess:

**Explore:** Involves assessing students' prior knowledge and providing opportunities for students to interact with content from the video.

**Apply:** Includes having students use the content learned during the Explore section in a new way that is meaningful to future learning.

**Extend:** Allows students to conduct further research around an area of interest within the topic.

**Assess:** Provides strategies meant to inform students and teachers about the content and processes that have been learned.

## Explore

The NSES Teaching Standard B states: "Teachers of science guide and facilitate learning." This standard addresses the constant need to balance your predetermined goals with allowing students to set and meet their own learning goals.

*Focus and Support Inquiries*: Support student inquiries by making decisions about "when to provide information" and "when to connect students with other sources." Knowing the best time to intervene is often determined by allowing students to ask questions and to explore concepts openly.

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The NSES Teaching Standard C states: "Teachers of science engage in ongoing assessment of their teaching and of student learning."

*Assess in Order to Guide Teaching:* The Program Overview or the Discussion Starter on the DVD can be used to gauge students' prior knowledge. You can use student responses to make decisions about appropriate instruction and adaptations in order to meet the needs of individual students. Assessment can be in the form of student reflections from standards-aligned video clips or answers to questions found on the science quiz. Or, as in the following example, a simple graphic organizer can facilitate a formative assessment.

### Example: T-Chart from *Blood and Circulation*

1. Ask students to fill out the "Know-New" T-Chart (see page 14). Have them list what they already know about the circulatory system (heart, blood vessels, blood, etc.) on the left side of their charts.

2. Show the Program Overview for *Blood and Circulation*. On the right side of the chart, have students list new things they have learned from watching the clip. Walk around the room and assist students in filling in their T-Charts. Replay the program as necessary to allow students to review sections of interest.

3. Once students have completed their charts, ask them to share what they have listed in the "New" column. Write these on the board. Have students write their own working definitions of the circulatory system. Once students have completed their definitions, collect and review their work to assess prior knowledge.

Conduct direct vocabulary instruction in the Explore phase. Research suggests that:

- Students must encounter words in context more than once to learn them.
- Instruction in new words enhances learning those words in context.
- One of the best ways to learn a new word is to associate an image with it.
- Direct vocabulary instruction on words that are critical to new content produces the most powerful learning.

Use the DVD Glossary with the linked video clips to expose students to new vocabulary words in context, along with associated video images. You can also find a printed version of the glossary terms in this Guide on page 16.

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### Example: Using the Glossary for Direct Vocabulary Instruction
### *Blood and Circulation*

1. Present students with a brief explanation or description of the new term or phrase from the glossary. For example: “Capillary: A small blood vessel that connects arteries and veins.”
2. Present students with a nonlinguistic representation of the new term or phrase. Show the video clip associated with the term “capillary.”
3. Ask students to generate their own verbal description of “capillary.”
4. Ask students to create their own nonlinguistic representation of “capillary.”
5. Periodically ask students to review the accuracy of their explanations and representations. This can be done after the Apply activities.

## Apply

Based on the information you gained from the Explore assessments, design appropriate activities for your students. Check the experiments listed in the Episode Guide (see page 11) for explanations of the demonstrations from the Bill Nye program as well as for additional experiments designed to help apply the knowledge gained.

In the following example from *Blood and Circulation*, the standards-based video clips provide background information, and an experiment from the Guide helps students apply what they have learned about arteries and veins.

### Example: The Structure and Function of Arteries and Veins

1. Have students begin “Know-New” T-Charts, focusing on what they already know about the structure and function of blood vessels, arteries, and veins.
2. Watch the following chapters from the Bill Nye DVD *Blood and Circulation*:
   - Blood vessels
   - Heart pump and bloodstream
   - Capillaries
3. Complete the “Know-New” T-Charts.
4. Give students copies of the Student Recording Sheet (see page 15) and have them fill the sheets out as they conduct their experiments.
5. Do the experiment entitled “Pump it Up!” from the *Blood and Circulation* Episode Guide, in which students observe the apparent effects of pressure on arteries and veins.
6. Write down any remaining questions about the structure and function of blood vessels, arteries, and veins.

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## Extend

The NSES Teaching Standard D states: "Teachers of science design and manage learning environments that provide students with the time, space, and resources needed for learning science." School administrators, parents, and the community can assist teachers in providing local resources that make science lessons pertinent and meaningful.

*Identify and Use Resources Outside of the School:* "The school science program must extend beyond the walls of the school." Each Bill Nye DVD contains resources designed to facilitate such understanding, including:

- Way Cool Scientist, found in both Watch Program and Bonus Materials, in which scientists discuss their current areas of study. This real-world connection often results in a deeper student understanding of a particular career.
- Disney's Edustation Web site, where relevant Internet links provide a starting point for students to further explore science topics.
- Try these video clips, with activities parents and students can do at home. The questions generated by students from these experiences can be used as foundations from which they may conduct their own research.
- Standards-aligned video clips and Bill's demonstration video clips, which can help generate topics for further research. After viewing the clips, have students list their questions, perhaps about the most current developments in a topic. By conducting online or library research, students will find answers to their questions and will learn about a topic in greater depth.

### Example: Conducting Student Research Using *Blood and Circulation*

Ask students to choose one of the questions they had after completing the activities from *Blood and Circulation*. An example of a student research question might be, "How has the technology related to artificial hearts advanced in the last ten years?" Explain to students that they will be conducting research to find answers to their questions. Some students may want to complete online or library research, others may want to ask an expert in the field, while others may want to design and conduct a scientific investigation. Encourage students to write a detailed procedure for finding answers to their questions. Ask students to find one or more examples of current research dealing with the circulatory system that is related to their question. NOTE: Students with similar questions may work together to complete the assignment.

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## Assess

Once students have conducted the research, you may choose to assess them in a number of different ways:

- By having students write about what they learned in a journal.
- By having students submit projects or reports.
- By having students take the program quiz to gauge their understanding of certain facts in the video. You can either print the quiz (found in this Guide on page 18) and have each student complete it individually or use the DVD screen version and the scoring feature for whole-class assessment.
- By designing other standards-aligned questions to augment those that are provided.

While the quiz will provide you with information about what the students have learned, it does not assess how students have processed the information. Below you will find assessment ideas that can be used to measure both content and process.

### A Sample Assessment for *Blood and Circulation*

1. Explain to students that an important aspect of scientific inquiry is to communicate findings to others. In this assessment, students will present the following information to their peers:
   - The question they investigated.
   - The method that was used to find answers to their question.
   - Problems or successes during the search.
   - Answers to their question.
   - Current research related to their question.
   - New questions that have arisen.
2. Distribute the rubric found in the Lesson Planning Worksheet (see page 13) to students so they know how they will be assessed. Make sure students understand the criteria found in the rubric. Before you begin, you may want to allow students to make changes to the rubric so that it is clearer or makes more sense from their perspectives.
3. Allow students time to gather information to answer their questions and to prepare for their presentations. As students conduct this work, walk around the room and ask questions to assess their progress and provide input as needed.
4. Take a few minutes to clarify the rules of the presentation with the students. You may want to have multiple copies of the rubric available so that peers can rate the presentations.
5. As presentations are made, assess the quality of the student's work as thoroughly and as equitably as you possibly can.

Congratulations! You have now completed the steps to set up a lesson plan using the Lesson Planning Worksheet. You have also explored many of the features of the Bill Nye DVD as well as the supplemental information found in this Teacher's Guide. And most important, you've made significant strides toward incorporating DVD technology into your day-to-day instruction.

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# National Science Education Standards

## *Spiders*

### *Standards/Benchmarks*

## Grades K-4

## Science as Inquiry

**Understandings about scientific inquiry**

- Scientists use different kinds of investigations depending on the questions they are trying to answer. Types of investigations include describing objects, events, and organisms; classifying them; and doing a fair test (experimenting).

## Life Science

**The characteristics of organisms**

- Organisms have basic needs. For example, animals need air, water, and food; plants require air, water, nutrients, and light. Organisms can survive only in environments in which their needs can be met. The world has many different environments, and distinct environments support the life of different types of organisms.
- Each plant or animal has different structures that serve different functions in growth, survival, and reproduction. For example, humans have distinct body structures for walking, holding, seeing, and talking.
- The behavior of individual organisms is influenced by internal cues (such as hunger) and by external cues (such as a change in the environment). Humans and other organisms have senses that help them detect internal and external cues.

**Life cycles of organisms**

- Plants and animals have life cycles that include being born, developing into adults, reproducing, and eventually dying. The details of this life cycle are different for different organisms.
- Plants and animals closely resemble their parents.
- Many characteristics of an organism are inherited from the parents of the organism, but other characteristics result from an individual's interactions with the environment. Inherited characteristics include the color of flowers and the number of limbs of an animal. Other features, such as the ability to ride a bicycle, are learned through interactions with the environment and cannot be passed on to the next generation.

**Organisms and their environments**

- All animals depend on plants. Some animals eat plants for food. Other animals eat animals that eat the plants.
- An organism's patterns of behavior are related to the nature of that organism's environment, including the kinds and numbers of other organisms present, the availability of food and resources, and the physical characteristics of the environment. When the environment changes, some plants and animals survive and reproduce, and others die or move to new locations.

## History and Nature of Science

**Science as a human endeavor**

- Many people choose science as a career and devote their entire lives to studying it. Many people derive great pleasure from doing science.

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## Grades 5-8

## Science as Inquiry

### Understandings about scientific inquiry

- Different kinds of questions suggest different kinds of scientific investigations. Some investigations involve observing and describing objects, organisms, or events; some involve collecting specimens; some involve experiments; some involve seeking more information; some involve discovery of new objects and phenomena; and some involve making models.

## Life Science

### Structure and function in living systems

- Living systems at all levels of organization demonstrate the complementary nature of structure and function. Important levels of organization for structure and function include cells, organs, tissues, organ systems, whole organisms, and ecosystems.

- Specialized cells perform specialized functions in multicellular organisms. Groups of specialized cells cooperate to form a tissue, such as a muscle. Different tissues are in turn grouped together to form larger functional units, called organs. Each type of cell, tissue, and organ has a distinct structure and set of functions that serve the organism as a whole.

### Regulation and behavior

- All organisms must be able to obtain and use resources, grow, reproduce, and maintain stable internal conditions while living in a constantly changing external environment.

### Populations and ecosystems

- The number of organisms an ecosystem can support depends on the resources available and abiotic factors, such as quantity of light and water, range of temperatures, and soil composition. Given adequate biotic and abiotic resources and no disease or predators, populations (including humans) increase at rapid rates. Lack of resources and other factors, such as predation and climate, limit the growth of populations in specific niches in the ecosystem.

## History and Nature of Science

### Science as a human endeavor

- Women and men of various social and ethnic backgrounds—and with diverse interests, talents, qualities, and motivations—engage in the activities of science, engineering, and related fields such as the health professions. Some scientists work in teams, and some work alone, but all communicate extensively with others.

- Science requires different abilities, depending on such factors as the field of study and type of inquiry. Science is very much a human endeavor, and the work of science relies on basic human qualities, such as reasoning, insight, energy, skill, and creativity—as well as on scientific habits of mind, such as intellectual honesty, tolerance of ambiguity, skepticism, and openness to new ideas.

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# Episode Guide

## *Spiders*

| Nifty Questions in This Episode | Awesome Answers |
|---|---|
| Are spiders insects? How many body parts do they have? | No! They are arachnids and have only two body parts. |
| Do spiders have a skeleton? How many legs do spiders have? | Yes! It's called an exoskeleton. They have eight legs. |
| What is the strongest natural fiber for its weight and size? | Spider web (silk strand). |
| Do all spiders have venom? | Yes! But not all spider venom is poisonous to man. |

## Experiments shown on the video:

### STICKY WICKET

***Objective: To demonstrate how a spider web catches insects.***

- Stretch a coat hanger between your two hands to form a large circle or irregular shape.
- Cut a thin slice of a bagel or use a large metal washer; tie the ends of yarn or twine around the bagel or washer.
- Tie the other end of the twine around the hanger frame, keeping the bagel or washer in the center of the hanger frame.
- Hang the "web hanger" out of doors and spray with sugar water or other sticky solution.
- Leave hanging for 24 hours or longer and observe the number of insects that are collected.
- Make additional "web hangers" and place them in different places in and out of doors for comparison.

## More interesting stuff to do:

### WEBS OF A DIFFERENT COLOR

***Objective: To collect spider webs with different web patterns.***

- Locate a spider web with a friend.
- Test the web by pushing a tongue depressor or stick gently against the web, making sure that the web isn't a home for a spider.
- Use a different spray paint color for each different web pattern that you find. Spray each web with paint; then spray a large piece of stiff paper with an adhesive or clear sticky spray.
- Quickly push the sticky paper against the freshly painted web while a friend cuts the strands around the web. You now have the start of a web collection.

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*Bill Nye the Science Guy*

# Lesson Planning Worksheet

**Lesson Title** _____

**Objectives** _____

_____

_____

**Estimated Time Required** _____

**Materials Needed** _____

_____

**National Science Educational Standards**

_____

_____

_____

_____

_____

**Explore** _____

_____

_____

_____

**Apply** _____

_____

_____

_____

**Extend** _____

_____

_____

_____

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## Assess

As presentations are made, assess the quality of the student's work as thoroughly and as equitably as you possibly can. The following criteria can be used to assist in your assessment.

Name of Student _____

Question Investigated _____

| Initial Question | | | |
|---|---|---|---|
| 1<br>Question is broad and not well defined | 2<br>Question is defined but limited to single-answer responses. | 3<br>Question is clear and might elicit multiple responses that may lead to new ideas and additional questions. | 4<br>Question is engaging and provokes new ways of thinking about an issue. |
| **Methods for Finding Answers** | | | |
| 1<br>Students do not share planned or actual methods. | 2<br>Students share methods but they are unclear or vague. | 3<br>Students share methods but not the problems or successes of using the methods. | 4<br>Students share methods and problems or successes in using the methods. |
| **Results** | | | |
| 1<br>Student results are undefined. | 2<br>Student results are incomplete and do not adequately answer the question. | 3<br>Student results are complete, adequately answer the question, and include current research related to the question. | 4<br>Student results are complete, include current research, and have resulted in one or more additional questions. |
| **Communication** | | | |
| 1<br>Student is not prepared to speak. | 2<br>Presenter has distracting mannerisms and avoids eye contact with the audience. | 3<br>Presentation is clean and clear with some eye contact and very few distractions. | 4<br>Presentation is exceptional and unique. Presenter uses regular eye contact and avoids distractions. |

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*Bill Nye the Science Guy*

# Student "Know / New" Chart

| Know | New |
| --- | --- |
| Write down what you know about the topic of the video. | Write down information from the video that is new to you. |
| | |

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# Student Recording Sheet

Name _____ Date _____

Title of Experiment _____

Question: (What are you testing?) _____

Procedure: (Describe the experiment) _____

Materials: (List what you used) _____

Observations: (Record what happened) _____

Results: (Make your own data table)

Conclusions: (Use your observations and results to describe what you learned)

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# Glossary

## *Spiders*

Fold and cut to use as flashcards.

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**EXOSKELETON**

**Exoskeleton**

An exoskeleton is a hard, protective covering on the outside of a spider's body. Spiders' muscles are attached to this supportive, external skeleton.

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**CEPHALOTHORAX**

**Cephalothorax**

The spider's cephalothorax, the first of two body parts, is a combination of the head and thorax (chest cavity). The eyes, mouthparts and legs are found on the cephalothorax. It also contains the brain and stomach.

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**PEDIPALPS**

**Pedipalps**

Pedipalps are mouth parts that look like little legs or antennas. Used for holding, pedipalps assist in spinning webs and capturing prey. They also have sensory capabilities and reproductive functions.

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**ABDOMEN**

**Abdomen**

The abdomen, the last and largest segment of the spider's two body parts, contains the heart, lungs and silk-producing glands. Spinnerets which release silk are attached to the underside of the abdomen.

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Fold and cut to use as flashcards.

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# SPINNERETS

**Spinnerets**

These finger-like extensions, located on the rear of the spider's abdomen, are organs used for releasing silk and spinning webs.

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# EXUVIAE

**Exuviae**

Exuviae is the shed outer layer of a spider. When spiders outgrow their hard exoskeletons, a new external covering is formed and the old one is shed.

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# MOLTING

**Molting**

The process of shedding the outer, protective layer or exoskeleton that a spider undergoes periodically in order to grow in size.

*Bill Nye the Science Guy*

# EXTERNAL DIGESTION

**External Digestion**

The process of breaking down food begins when the spider spits digestive juices on their captured prey which softens the tissues of the prey allowing the spider to suck it into their stomach.

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Name _____ Date _____

# Quiz

## *Spiders*

## True or False? Circle T or F

1. Spinneretes are located near the spider's mouth and are used to produce venom. T or F
2. A spider's venom comes from its silk. T or F
3. Spiders use their heart to pump their legs full of blood in order to move. T or F
4. Spiders kill the food they eat with fangs that have venom. T or F
5. Many spiders wrap their prey in silk so they can eat it later. T or F

## Multiple Choice: Circle the letter of the best answer

6. What is the function of a spider's pedipalp?
   - A. Moving
   - B. Eating
   - C. Holding
   - D. Fighting

7. Which of the following is a reason that spiders are important for the environment?
   - A. Spiders are really cool.
   - B. Spiders control insect populations.
   - C. Spiders have eight legs.
   - D. Spiders have two body parts.

8. Which of the following is NOT how spiders use silk?
   - A. To feel what is behind them
   - B. To line their burrows
   - C. To make an egg sack
   - D. To mate

9. Which of the following describes how a spider digests its food?
   - A. External digestion
   - B. Internal digestion
   - C. With poison
   - D. None of the above

10. Which of the following statements about spiders and insects is false?
    - A. Spiders have more legs than insects.
    - B. Both spiders and insects spin silk with spinneretes.
    - C. Without spiders, there would be more insects.
    - D. Spiders and insects have an exoskeleton.

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# Answer Key

## *Spiders*

| | | | |
|---|---|---|---|
| 1. F | 4. T | 7. B | 9. A |
| 2. F | 5. T | 8. D | 10. B |
| 3. T | 6. C | | |

EXTERNAL DIGESTION

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